



PCT09

## RAW SEQUENCE LISTING

DATE: 06/04/2002

PATENT APPLICATION: US/09/807,452

TIME: 15:07:27

Input Set : A:\pf0619usn\_sequence\_listing.txt

Output Set: N:\CRF3\06042002\I807452.raw

ENTERED

```

4 <110> APPLICANT: INCYTE PHARMACEUTICALS, INC.
5   TANG, Y. Tom
6   YUE, Henry
7   HILLMAN, Jennifer L.
8   GUEGLER, Karl J.
9   CORLEY, Neil C.
10  LAL, Preeti
11  AZIMZAI, Yalda
12  BAUGHN, Mariah R.
13  JUNMING, Yang
14  SHIH, Leo L.
16 <120> TITLE OF INVENTION: PROLIFERATION AND APOPTOSIS RELATED PROTEINS
18 <130> FILE REFERENCE: PF-0619 PCT
C--> 20 <140> CURRENT APPLICATION NUMBER: US/09/807,452
C--> 21 <141> CURRENT FILING DATE: 2002-04-17
23 <150> PRIOR APPLICATION NUMBER: 09/175,737; unassigned; 60/118,559; 09/249,740;
unassigned;
W--> 24 60/154,336
W--> 25 <151> PRIOR FILING DATE: 1998-10-20; 1998-10-20; 1999-02-04; 1999-04-11; 1999-04-11;
W--> 26 1999-04-22
28 <160> NUMBER OF SEQ ID NOS: 44
30 <170> SOFTWARE: PERL Program
32 <210> SEQ ID NO: 1
33 <211> LENGTH: 334
34 <212> TYPE: PRT
35 <213> ORGANISM: Homo sapiens
37 <220> FEATURE:
38 <221> NAME/KEY: misc_feature
39 <223> OTHER INFORMATION: Incyte ID No: 1342011CD1
41 <400> SEQUENCE: 1
42 Met Ser Arg Thr Met Ala Arg Thr Arg Pro Gly Gln Leu Gly Arg
43   1           5           10           15
44 Val Thr Gly Ala Gly Gly Trp Gly Ser Ala Ala Val Cys Arg Gly
45           20           25           30
46 Arg Ala Leu Arg Gly Arg Glu Pro Ala Leu Pro Ser Ala Ser Phe
47           35           40           45
48 Pro Asp Val Ala Ala Cys Pro Gly Ser Leu Asp Cys Ala Leu Lys
49           50           55           60
50 Arg Arg Ala Arg Cys Pro Pro Gly Ala His Ala Cys Gly Pro Cys
51           65           70           75
52 Leu Gln Pro Phe Gln Glu Asp Gln Gln Gly Leu Cys Val Pro Arg
53           80           85           90
54 Met Arg Arg Pro Pro Gly Gly Gly Arg Pro Gln Pro Arg Leu Glu
55           95          100          105

```

## RAW SEQUENCE LISTING

DATE: 06/04/2002

PATENT APPLICATION: US/09/807,452

TIME: 15:07:27

Input Set : A:\pf0619usn\_sequence\_listing.txt

Output Set: N:\CRF3\06042002\I807452.raw

```

56 Asp Glu Ile Asp Phe Leu Ala Gln Glu Leu Ala Arg Lys Glu Ser
57                               110           115           120
58 Gly His Ser Thr Pro Pro Leu Pro Lys Asp Arg Gln Arg Leu Pro
59                               125           130           135
60 Glu Pro Ala Thr Leu Gly Phe Ser Ala Arg Gly Gln Gly Leu Glu
61                               140           145           150
62 Leu Gly Leu Pro Ser Thr Pro Gly Thr Pro Thr Pro Thr Pro His
63                               155           160           165
64 Thr Ser Leu Gly Ser Pro Val Ser Ser Asp Pro Val His Met Ser
65                               170           175           180
66 Pro Leu Glu Pro Arg Gly Gly Gln Gly Asp Gly Leu Ala Leu Val
67                               185           190           195
68 Leu Ile Leu Ala Phe Cys Val Ala Gly Ala Ala Ala Leu Ser Val
69                               200           205           210
70 Ala Ser Leu Cys Trp Cys Arg Leu Gln Arg Glu Ile Arg Leu Thr
71                               215           220           225
72 Gln Lys Ala Asp Tyr Ala Thr Ala Lys Ala Pro Gly Ser Pro Ala
73                               230           235           240
74 Ala Pro Arg Ile Ser Pro Gly Asp Gln Arg Leu Ala Gln Ser Ala
75                               245           250           255
76 Glu Met Tyr His Tyr Gln His Gln Arg Gln Gln Met Leu Cys Leu
77                               260           265           270
78 Glu Arg His Lys Glu Pro Pro Lys Glu Leu Asp Thr Ala Ser Ser
79                               275           280           285
80 Asp Glu Glu Asn Glu Asp Gly Asp Phe Thr Val Tyr Glu Cys Pro
81                               290           295           300
82 Gly Leu Ala Pro Thr Gly Glu Met Glu Val Arg Asn Pro Leu Phe
83                               305           310           315
84 Asp His Ala Ala Leu Ser Ala Pro Leu Pro Ala Pro Ser Ser Pro
85                               320           325           330
86 Pro Ala Leu Pro
89 <210> SEQ ID NO: 2
90 <211> LENGTH: 281
91 <212> TYPE: PRT
92 <213> ORGANISM: Homo sapiens
94 <220> FEATURE:
95 <221> NAME/KEY: misc_feature
96 <223> OTHER INFORMATION: Incyte ID No: 1880041CD1
98 <400> SEQUENCE: 2
99 Met Ala Val Asn Val Tyr Ser Thr Ser Val Thr Ser Glu Asn Leu
100  1           5           10           15
101 Ser Arg His Asp Met Leu Ala Trp Val Asn Asp Ser Leu His Leu
102           20           25           30
103 Asn Tyr Thr Lys Ile Glu Gln Leu Cys Ser Gly Ala Ala Tyr Cys
104           35           40           45
105 Gln Phe Met Asp Met Leu Phe Pro Gly Cys Val His Leu Arg Lys
106           50           55           60
107 Val Lys Phe Gln Ala Lys Leu Glu His Glu Tyr Ile His Asn Phe
108           65           70           75

```

## RAW SEQUENCE LISTING

DATE: 06/04/2002

PATENT APPLICATION: US/09/807,452

TIME: 15:07:27

Input Set : A:\pf0619usn\_sequence\_listing.txt

Output Set: N:\CRF3\06042002\I807452.raw

```

109 Lys Val Leu Gln Ala Ala Phe Lys Lys Met Gly Val Asp Lys Ile
110      80      85      90
111 Ile Pro Val Glu Lys Leu Val Lys Gly Lys Phe Gln Asp Asn Phe
112      95      100      105
113 Glu Phe Ile Gln Trp Phe Lys Lys Phe Phe Asp Ala Asn Tyr Asp
114      110      115      120
115 Gly Lys Asp Tyr Asn Pro Leu Leu Ala Arg Gln Gly Gln Asp Val
116      125      130      135
117 Ala Pro Pro Pro Asn Pro Gly Asp Gln Ile Phe Asn Lys Ser Lys
118      140      145      150
119 Lys Leu Ile Gly Thr Ala Val Pro Gln Arg Thr Ser Pro Thr Gly
120      155      160      165
121 Pro Lys Asn Met Gln Thr Ser Gly Arg Leu Ser Asn Val Ala Pro
122      170      175      180
123 Pro Cys Ile Leu Arg Lys Asn Pro Pro Ser Ala Arg Asn Gly Gly
124      185      190      195
125 His Glu Thr Asp Ala Gln Ile Leu Glu Leu Asn Gln Gln Leu Val
126      200      205      210
127 Asp Leu Lys Leu Thr Val Asp Gly Leu Glu Lys Glu Arg Asp Phe
128      215      220      225
129 Tyr Phe Ser Lys Leu Arg Asp Ile Glu Leu Ile Cys Gln Glu His
130      230      235      240
131 Glu Ser Glu Asn Ser Pro Val Ile Ser Gly Ile Ile Gly Ile Leu
132      245      250      255
133 Tyr Ala Thr Glu Glu Gly Phe Ala Pro Pro Glu Asp Asp Glu Ile
134      260      265      270
135 Glu Glu His Gln Gln Glu Asp Gln Asp Glu Tyr
136      275      280

```

139 &lt;210&gt; SEQ ID NO: 3

140 &lt;211&gt; LENGTH: 237

141 &lt;212&gt; TYPE: PRT

142 &lt;213&gt; ORGANISM: Homo sapiens

144 &lt;220&gt; FEATURE:

145 &lt;221&gt; NAME/KEY: misc\_feature

146 &lt;223&gt; OTHER INFORMATION: Incyte ID No: 3201881CD1

148 &lt;400&gt; SEQUENCE: 3

```

149 Met Gly Glu Asp Ala Ala Gln Ala Glu Lys Phe Gln His Pro Gly
150 1      5      10      15
151 Ser Asp Met Arg Gln Glu Lys Pro Ser Ser Pro Ser Pro Met Pro
152      20      25      30
153 Ser Ser Thr Pro Ser Pro Ser Leu Asn Leu Gly Asn Thr Glu Glu
154      35      40      45
155 Ala Ile Arg Asp Asn Ser Gln Val Asn Ala Val Thr Val Leu Thr
156      50      55      60
157 Leu Leu Asp Lys Leu Val Asn Met Leu Asp Ala Val Gln Glu Asn
158      65      70      75
159 Gln His Lys Met Glu Gln Arg Gln Ile Ser Leu Glu Gly Ser Val
160      80      85      90
161 Lys Gly Ile Gln Asn Asp Leu Thr Lys Leu Ser Lys Tyr Gln Ala

```

## RAW SEQUENCE LISTING

DATE: 06/04/2002

PATENT APPLICATION: US/09/807,452

TIME: 15:07:27

Input Set : A:\pf0619usn\_sequence\_listing.txt

Output Set: N:\CRF3\06042002\I807452.raw

162		95		100		105
163	Ser Thr Ser Asn Thr Val Ser Lys Leu		Leu Glu Lys Ser Arg Lys			
164		110		115		120
165	Val Ser Ala His Thr Arg Ala Val Lys		Glu Arg Met Asp Arg Gln			
166		125		130		135
167	Cys Ala Gln Val Lys Arg Leu Glu Asn		Asn His Ala Gln Leu Leu			
168		140		145		150
169	Arg Arg Asn His Phe Lys Val Leu Ile		Phe Gln Glu Glu Asn Glu			
170		155		160		165
171	Ile Pro Ala Ser Val Phe Val Lys Gln		Pro Val Ser Gly Ala Val			
172		170		175		180
173	Glu Gly Lys Glu Glu Leu Pro Asp Glu		Asn Lys Ser Leu Glu Glu			
174		185		190		195
175	Thr Leu His Thr Val Asp Leu Ser Ser		Asp Asp Asp Leu Pro His			
176		200		205		210
177	Asp Glu Glu Ala Leu Glu Asp Ser Ala		Glu Glu Lys Val Gly Arg			
178		215		220		225
179	Ser Pro Arg Gly Arg Glu Ile Lys Arg		Ser Arg Pro			
180		230		235		
183	<210> SEQ ID NO: 4					
184	<211> LENGTH: 941					
185	<212> TYPE: PRT					
186	<213> ORGANISM: Homo sapiens					
188	<220> FEATURE:					
189	<221> NAME/KEY: misc_feature					
190	<223> OTHER INFORMATION: Incyte ID No: 939000CD1					
192	<400> SEQUENCE: 4					
193	Met Asn Lys Lys Lys Lys Pro Phe Leu		Gly Met Pro Ala Pro Leu			
194	1	5		10		15
195	Gly Tyr Val Pro Gly Leu Gly Arg Gly		Ala Thr Gly Phe Thr Thr			
196		20		25		30
197	Arg Ser Asp Ile Gly Pro Ala Arg Asp		Ala Asn Asp Pro Val Asp			
198		35		40		45
199	Asp Arg His Ala Pro Pro Gly Lys Arg		Thr Val Gly Asp Gln Met			
200		50		55		60
201	Lys Lys Asn Gln Ala Ala Asp Asp Asp		Asp Glu Asp Leu Asn Asp			
202		65		70		75
203	Thr Asn Tyr Asp Glu Phe Asn Gly Tyr		Ala Gly Ser Leu Phe Ser			
204		80		85		90
205	Ser Gly Pro Tyr Glu Lys Asp Asp Glu		Glu Ala Asp Ala Ile Tyr			
206		95		100		105
207	Ala Ala Leu Asp Lys Arg Met Asp Glu		Arg Arg Lys Glu Arg Arg			
208		110		115		120
209	Glu Gln Arg Glu Lys Glu Glu Ile Glu		Lys Tyr Arg Met Glu Arg			
210		125		130		135
211	Pro Lys Ile Gln Gln Gln Phe Ser Asp		Leu Lys Arg Lys Leu Ala			
212		140		145		150
213	Glu Val Thr Glu Glu Glu Trp Leu Ser		Ile Pro Glu Val Gly Asp			
214		155		160		165

## RAW SEQUENCE LISTING

DATE: 06/04/2002

PATENT APPLICATION: US/09/807,452

TIME: 15:07:27

Input Set : A:\pf0619usn\_sequence\_listing.txt

Output Set: N:\CRF3\06042002\I807452.raw

215	Ala	Arg	Asn	Lys	Arg	Gln	Arg	Asn	Pro	Arg	Tyr	Glu	Lys	Leu	Thr
216					170					175					180
217	Pro	Val	Pro	Asp	Ser	Phe	Phe	Ala	Lys	His	Leu	Gln	Thr	Gly	Glu
218					185					190					195
219	Asn	His	Thr	Ser	Val	Asp	Pro	Arg	Gln	Thr	Gln	Phe	Gly	Gly	Leu
220					200					205					210
221	Asn	Thr	Pro	Tyr	Pro	Gly	Gly	Leu	Asn	Thr	Pro	Tyr	Pro	Gly	Gly
222					215					220					225
223	Met	Thr	Pro	Gly	Leu	Met	Thr	Pro	Gly	Thr	Gly	Glu	Leu	Asp	Met
224					230					235					240
225	Arg	Lys	Ile	Gly	Gln	Ala	Arg	Asn	Thr	Leu	Met	Asp	Met	Arg	Leu
226					245					250					255
227	Ser	Gln	Val	Ser	Asp	Ser	Val	Ser	Gly	Gln	Thr	Val	Val	Asp	Pro
228					260					265					270
229	Lys	Gly	Tyr	Leu	Thr	Asp	Leu	Asn	Ser	Met	Ile	Pro	Thr	His	Gly
230					275					280					285
231	Gly	Asp	Ile	Asn	Asp	Ile	Lys	Lys	Ala	Arg	Leu	Leu	Leu	Lys	Ser
232					290					295					300
233	Val	Arg	Glu	Thr	Asn	Pro	His	His	Pro	Pro	Ala	Trp	Ile	Ala	Ser
234					305					310					315
235	Ala	Arg	Leu	Glu	Glu	Val	Thr	Gly	Lys	Leu	Gln	Val	Ala	Arg	Asn
236					320					325					330
237	Leu	Ile	Met	Lys	Gly	Thr	Glu	Met	Cys	Pro	Lys	Ser	Glu	Asp	Val
238					335					340					345
239	Trp	Leu	Glu	Ala	Ala	Arg	Leu	Gln	Pro	Gly	Asp	Thr	Ala	Lys	Ala
240					350					355					360
241	Val	Val	Ala	Gln	Ala	Val	Arg	His	Leu	Pro	Gln	Ser	Val	Arg	Ile
242					365					370					375
243	Tyr	Ile	Arg	Ala	Ala	Glu	Leu	Glu	Thr	Asp	Ile	Arg	Ala	Lys	Lys
244					380					385					390
245	Arg	Val	Leu	Arg	Lys	Ala	Leu	Glu	His	Val	Pro	Asn	Ser	Val	Arg
246					395					400					405
247	Leu	Trp	Lys	Ala	Ala	Val	Glu	Leu	Glu	Glu	Pro	Glu	Asp	Ala	Arg
248					410					415					420
249	Ile	Met	Leu	Ser	Arg	Ala	Val	Glu	Cys	Cys	Pro	Thr	Ser	Val	Glu
250					425					430					435
251	Leu	Trp	Leu	Ala	Leu	Ala	Arg	Leu	Glu	Thr	Tyr	Glu	Asn	Ala	Arg
252					440					445					450
253	Lys	Val	Leu	Asn	Lys	Ala	Arg	Glu	Asn	Ile	Pro	Thr	Asp	Arg	His
254					455					460					465
255	Ile	Trp	Ile	Thr	Ala	Ala	Lys	Leu	Glu	Glu	Ala	Asn	Gly	Asn	Thr
256					470					475					480
257	Gln	Met	Val	Glu	Lys	Ile	Ile	Asp	Arg	Ala	Ile	Thr	Ser	Leu	Arg
258					485					490					495
259	Ala	Asn	Gly	Val	Glu	Ile	Asn	Arg	Glu	Gln	Trp	Ile	Gln	Asp	Ala
260					500					505					510
261	Glu	Glu	Cys	Asp	Arg	Ala	Gly	Ser	Val	Ala	Thr	Cys	Gln	Ala	Val
262					515					520					525
263	Met	Arg	Ala	Val	Ile	Gly	Ile	Gly	Ile	Glu	Glu	Glu	Asp	Arg	Lys